

In the drawings:

FIG. 1

- 10 TAPE STREAMER DRIVE
- 4 REMOTE MEMORY CHIP
- 30 REMOTE MEMORY INTERFACE
- 27 SCSI BUFFER MEMORY
- 23 BUFFER MEMORY
- 26 SCSI BUFFER CONTROLLER
- 21 COMPANDER
- 22 IF/ECC CONTROLLER
- 15 SYSTEM CONTROLLER
- 16 SERVO CONTROLLER
- 17 MECHANICAL DRIVER
- 25 FLASH ROM
- 40 HOST COMPUTER
- 45 CONNECTOR BLOCK
- 104 CONTACT TYPE MEMORY

FIG. 2

- 31 DATA INTERFACE
- 32a (RF MODULATOR/AMPLIFIER)
- 32b (RECTIFIER)
- 32c (COMPARATOR)
- 32 (RF INTERFACE)

30 (REMOTE MEMORY INTERFACE)

FIG. 3A

4 REMOTE MEMORY CHIP

FIG. 3B

104 CONTACT TYPE MEMORY

FIG. 5

4a POWER CIRCUIT

5 (ANTENNA)

4c CONTROLLER

4 (REMOTE MEMORY CHIP)

FIG. 6A

MAGNETIC TAPE

FIG. 6B

PARTITION

GROUP

FIG. 6C

GROUP

FRAME

FIG. 6D

FRAME = 2 TRACKSTRACK

FIG. 7A

BLOCK

PARITY

73 BYTES

FIG. 7B

TRACK

MARGIN

PARITY

471 BLOCKS

FIG. 7C

1 FRAME

40 TRACKS = 1 GROUP

FIG. 9

MIC HEADER (FL1 - FL3)

MANUFACTURE PART

SIGNATURE

CARTRIDGE SERIAL NUMBER

CARTRIDGE SERIAL NUMBER CRC
SCRATCH PAD MEMORY
MECHANISM ERROR LOG
MECHANISM COUNTER
LAST 11 DRIVE LIST
DRIVE INITIALIZE PART
VOLUME INFORMATION
ACCUMULATIVE SYSTEM LOG
VOLUME TAG
MEMORY FREE POOL (FL4)
PARTITION INFORMATION CELL #0
PARTITION INFORMATION CELL #1
USER PARTITION NOTE CELL #1
USER PARTITION NODE CELL #0
USER VOLUME NOTE CELL
SUPER-HIGH SPEED SEARCH MAP CELL

FIG. 15

S101 IS CASSETTE LOADED?
S102 CHECK MIC
S103 DOES MIC EXIST?
S104 READ DATA FROM MIC AND HOLD THEM
S105 READ SYSTEM LOG DATA FROM TAPE AND HOLD THEM
S106 IS CARTRIDGE SERIAL NO. FOUND ON TAPE?

S107 DOES CARTRIDGE SERIAL NO. FROM TAPE MATCH THAT FROM
MIC?

S108 CHECK Application ID

S109 DOES SPECIAL CARTRIDGE CATEGORY APPLY?

S110 PERFORM SEQUENCE PROCESS CORRESPONDING TO SPECIAL
CARTRIDGE TYPE

S111 PERFORM SEQUENCE PROCESS CORRESPONDING TO NORMAL
CARTRIDGE

S112 PERFORM SEQUENCE PROCESS CORRESPONDING TO
ILLEGITIMATE CARTRIDGE

S113 PERFORM SEQUENCE PROCESS CORRESPONDING TO NORMAL
CARTRIDGE

S114 READ SYSTEM LOG DATA FROM TAPE AND HOLD THEM

S115 IS SERIAL NO. FOUND?

S116 PERFORM SEQUENCE PROCESS CORRESPONDING TO
ILLEGITIMATE CARTRIDGE, OR SET FUNCTION RESTRICTIONS
APPLICABLE TO CARTRIDGE TYPE

S117 PERFORM SEQUENCE PROCESS CORRESPONDING TO NORMAL
CARTRIDGE